

# CORNELL UNIVERSITY OFFICIAL PUBLICATION

VOLUME IX

NUMBER 12

## ANNOUNCEMENT OF THE NEW YORK STATE VETERINARY COLLEGE 1918-1919

MAY 15, 1918  
PUBLISHED BY CORNELL UNIVERSITY  
ITHACA, NEW YORK

This announcement is intended to give detailed information to prospective students in the New York State Veterinary College at Cornell University.

For general information concerning the University and its various colleges, the requirements for admission, etc., the General Circular of Information should be consulted. This and the other publications of Cornell University are listed on the last page of the cover of this pamphlet. Any of the informational publications there mentioned will be sent gratis and post-free on application to the Secretary of Cornell University, Ithaca, New York.

CALENDAR

(Revised April 15, 1918)

First Term, 1918-1919

Sept. 27,	Friday,	Entrance examinations begin.
Oct. 7,	Monday,	Academic year begins. Registration of new students.
Oct. 7,	Monday,	Examinations for University Undergraduate Scholarships begin.
Oct. 8,	Tuesday,	Registration of new students.
Oct. 9,	Wednesday,	Registration of old students.
Oct. 10,	Thursday,	Instruction begins. President's annual address to the students.
Oct. 12,	Saturday,	Registration, Graduate School.
Oct. 29,	Tuesday,	Last day for payment of tuition.
Nov.	Thursday,	Thanksgiving recess.
Dec. 21,	Saturday,	Instruction ends at 1 p. m.
Dec. 30,	Monday,	Instruction resumed at 1 p. m. } Christmas Recess.
Jan. 31,	Friday,	Instruction ends.
Feb. 1,	Saturday,	Term examinations begin.

Second Term, 1918-1919

Feb. 11,	Tuesday,	Registration.
Feb. 12,	Wednesday,	Instruction begins at 8 a. m.
Mar. 3,	Monday,	Last day for payment of tuition.
May 28,	Wednesday,	Instruction ends at 6 p. m.
May 29,	Thursday,	Term examinations begin.
June 9,	Monday,	Commencement.

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# NEW YORK STATE VETERINARY COLLEGE

## FACULTY

- Jacob Gould Schurman, A.M., D.Sc., LL.D., President of the University.  
Veranus Alva Moore, B.S., M.D., V.M.D., Professor of Comparative Pathology, Bacteriology and Meat Inspection; and Dean of the College.  
James Law, F.R.C.V.S., Emeritus Professor of Principles and Practice of Veterinary Medicine.  
Simon Henry Gage, B.S., Emeritus Professor of Histology.  
Pierre Augustine Fish, D.Sc., D.V.S., D.V.M., Professor of Veterinary Physiology and Secretary of the Faculty.  
Grant Sherman Hopkins, D.Sc., D.V.M., Professor of Veterinary Anatomy and Anatomical Methods.  
Walter Long Williams, Professor of Principles and Practice of Veterinary Surgery, Obstetrics, Zootechny, and Jurisprudence.  
Dennie Hammond Udall, B.S.A., D.V.M., Professor of Veterinary Medicine and Hygiene. (Absent in military service.)  
Samuel Howard Burnett, M.S., D.V.M., Professor of Comparative Pathology and Bacteriology.  
Howard Jay Milks, D.V.M., Professor of Therapeutics and Small Animal Clinic.  
James Nathan Frost, D.V.M., Professor of Veterinary Surgery.  
Earl Max Pickens, A.M., D.V.M., Professor of Diagnosis.  
Earl Sunderville, D.V.M., Assistant Professor of Veterinary Anatomy.  
Charles Ernest Hayden, A.B., D.V.M., Assistant Professor of Veterinary Physiology.  
Frederick Koenig, D.V.M., Assistant Professor of Veterinary Medicine.  
Raymond Russell Birch, B.S., D.V.M., Superintendent of the Veterinary Experiment Station.  
Samuel A. Goldberg, D.V.M., Assistant Professor of Pathology.  
Henry Asmus, Assistant Professor of Horseshoeing.  
Charles Milton Carpenter, Instructor in Obstetrics.  
William Edward Muldoon, D.V.M., Instructor in Materia Medica. (Absent in military service.)  
William Arthur Hagan, M.S., D.V.M., Instructor in Bacteriology and Parasitology.  
Walter Denslow Way, D.V.M., Instructor in Medicine.  
Earle Budd Hopper, D.V.M., Instructor in Surgery.  
Edward Stanley Stone, Assistant in Diagnosis.  
Paul Tehan Ignatius Connolly, Student Assistant in Pathology.  
Helena Harriet Haight, A.B., Clerk of the College.  
Frances B. van Zandt, Librarian of the Roswell P. Flower Library.  
Lulu M. Williams, Assistant in the College Office.  
Ethel Williams, Assistant.
- 
- James Edward Creighton, A.B., Ph.D., LL.D., Dean of the Graduate School.  
Henry Hiram Wing, M.S. in Agr., Professor of Animal Husbandry.  
Benjamin Freeman Kingsbury, Ph.D., M.D., Professor of Histology and Embryology.  
Arthur Wesley Browne, M.S., Ph.D., Professor of Inorganic and Analytical Chemistry.

## VETERINARY COLLEGE

Elmer Seth Savage, M.S.A., Ph.D., Professor of Animal Husbandry.  
 Merritt Wesley Harper, B.Sc., M.S., Professor of Animal Husbandry.  
 Edward Leamington Nichols, B.S., Ph.D., LL.D., Professor of Physics.  
 Roswell Clifton Gibbs, A.B., A.M., Ph.D., Assistant Professor of Physics.  
 Hugh Daniel Reed, B.S., Ph.D., Assistant Professor of Zoology.  
 John Edward Foglesong, M.A., Instructor in Inorganic Chemistry.  
 Stuart Deming Jackson, A.B., Instructor in Organic Chemistry.  
 Hugh McMillan Kingery, A.M., Instructor in Histology and Embryology.  
 (Absent on leave.).  
 \_\_\_\_\_, Assistant in Histology and Embryology.  
 John S. Latta, B.S., Assistant in Histology and Embryology.

## NONRESIDENT LECTURERS FOR 1917-1918

Colonel J. J. Aitken.....Washington, D. C.  
 Major D. S. White.....Columbus, O.  
 F. Torrance, Veterinary Director General.....Ottawa, Canada  
 U. G. Houck, Bureau of Animal Industry.....Washington, D. C.  
 W. G. Hollingworth.....Utica  
 Cooper Curtice, Bureau of Animal Industry....Vienna, Va.  
 Major C. G. Thomson.....Camp Dix, N. J.

## VETERINARY COLLEGE DIRECTORY

The President of the University, Jacob Gould Schurman, 2 Morrill Hall.  
 The Dean of the Veterinary College, Professor V. A. Moore, 1st floor.  
 Professor D. H. Udall, Medical Building.  
 Professor Walter L. Williams, Room 2, s. e. corner, 1st floor.  
 Professor Pierre A. Fish, Room 4, n. e. corner, 1st floor.  
 Professor Grant S. Hopkins, Room 12, n. e. corner, 2d floor.  
 Professor Veranus A. Moore, Room 13, s. w. corner, 3d floor.  
 Professor S. H. Burnett, Room 17, n. w. corner, 3d floor.  
 Professor H. J. Milks, Small Animal Building.  
 Professor J. N. Frost, Room 1, s. w. corner, 1st floor.  
 Assistant Professor E. Sunderville, Room 3, n. w. corner, 1st floor.  
 Assistant Professor C. E. Hayden, Room 3, n. w. corner, 1st floor.  
 Assistant Professor F. F. Koenig, Medical Building.  
 Professor E. M. Pickens, 3d floor, Main Building.  
 Assistant Professor Henry Asmus, Farriery Building.  
 Clerk of the College, H. H. Haight, 1st floor.  
 Librarian, Frances van Zandt, Room 9, s. e. corner, 2d floor.  
 Groom, Joseph Fisher, Cottage east of Main Building.  
 Groom, Frank Spencer, Medical Building.  
 Groom, Walter Kehoe, Small Animal Building.  
 Assistant Groom, \_\_\_\_\_.  
 Teamster, Henry Fatula.

## VETERINARY COLLEGE COUNCIL

President Schurman, chairman, Veranus A. Moore, Charles S. Wilson, Fred W. Sessions, William F. Pratt, J. du Pratt White, John A. Dix, Horace White, Frank H. Miller, Thomas B. Wilson, Jared T. Newman, Pierre A. Fish.



## FOUNDATION

The New York State Veterinary College was established by act of the State Legislature in 1894: "There is hereby established a State Veterinary College at Cornell University," Laws of New York, 1894, p. 207. By action of the Board of Trustees of Cornell University, June 10, 1894, the location of the College upon the University Campus was authorized. It was further enacted that while the University does not undertake any financial responsibility for the buildings, equipment, or maintenance of the College, it does consent to furnish instruction upon such subjects as are or shall be in its curriculum, upon such terms as may be deemed equitable.

By further acts of the Legislature provision was made for the buildings, equipment, and maintenance of the College and finally in 1897, by "An act to provide for the administration of the State Veterinary College, established by chapter 153 of the laws of 1894," the Trustees of Cornell University were entrusted with its administration.

## OBJECTS OF THE INSTITUTION

As stated in the act to provide for the administration of the State Veterinary College: "The State Veterinary College, established by chapter 153 of the laws of 1894 shall be known as the New York State Veterinary College. The object of the said Veterinary College shall be: to control investigations as to the nature, prevention, and cure of all diseases of animals, including such as are communicable to man and such as cause epizootics among live stock; to investigate the economical questions which will contribute to the more profitable breeding, rearing, and utilization of animals; to produce reliable standard preparations of toxins, antitoxins, and other productions to be used in the diagnosis, prevention, and cure of diseases, and in the conducting of sanitary work by approved modern methods; and to give instruction in the normal structure and function of the animal body, in the pathology, prevention, and treatment of animal diseases, and in all matters pertaining to sanitary science as applied to live stock and correlatively to the human family."

The New York State Veterinary College was therefore founded to raise the standard of veterinary investigation and instruction to the level of the most recent advances in biology and medicine. According to the thirteenth census of the United States (1910), the number of farm animals in the State, exclusive of poultry and pet animals, was 6,572,000 with a value of \$238,282,000. This gives some idea of the great financial interest at stake in the matter of live stock. The Year Book of the United States Department of Agriculture for 1916 gives the value of the live stock in the United States exclusive of poultry and pet animals at \$6,685,020,000.

Another consideration is that the normal, permanent fertilization of the soil is dependent upon the live stock kept, and that where there is a deficiency of animals, the productiveness of the land is steadily exhausted; therefore, the health and improvement of animals and the fostering of animal industry lie at the very foundation of our national wealth. Another and no less potent

argument for the higher standard of veterinary education is its influence on the health of the human race. With a long list of communicable diseases which are common to man and beast, it is to the last degree important that measures for the extinction of such contagion in our live stock should receive the best attention of the most highly trained experts.

To justify the liberality of the State in creating this seat of learning, it is the aim of the College to train thoroughly a class of veterinarians for dealing with all diseases and defects that depreciate the value of our live stock, and with the causes that give rise to them. It further aims, as far as it has the means and opportunity, to maintain a center of investigation looking toward discoveries in the nature of diseases, in therapeutics, and in the immunization of animals from contagion; and toward the production of biologic products to be employed in diagnosis, treatment and immunization. So much has been discovered recently in these directions and present knowledge points so unmistakably to coming discoveries, that to neglect this field at the present time would be very unfortunate. Apart from discovery, the mere production of reliable diagnostic and therapeutic biological products is of great economic importance. Furthermore, it is the purpose of the College to be of as much assistance as possible to the practitioners of veterinary medicine.

The combination in one institution of educational facilities with scientific investigation, and the production of vaccines and serums to be employed in modern medical methods, are features that insure the best work in all departments, and the most exceptional advantages for the diligent student.

## LOCATION

The New York State Veterinary College is located at Ithaca, on the Campus of Cornell University, fronting on East Avenue, and facing the University buildings. Electric cars on East Avenue convey students and visitors to any part of the city. Ithaca with its population of 15,800 is situated at the head of Cayuga Lake, two hundred sixty-three miles distant from New York City, on the lines of the Delaware, Lackawanna, and Western, and the Lehigh Valley railroads. The University grounds are four hundred feet higher than the city and command a view of twenty miles of valley and lake.

## BUILDINGS

**James Law Hall (The Main Building)**, one hundred and forty-two by forty-two feet, and three stories high, overlooks East Avenue and an intervening park of two hundred and twenty by three hundred feet. The walls are of buff pressed brick, on a base of Gouverneur marble; window and door facings are of Indiana limestone and terra cotta ornamentations. On the first floor are the museum and offices of the Dean, of the professors of physiology, of surgery, of obstetrics, and the business office. The second floor contains a lecture room, a laboratory of physiology and urine analysis, reading room, library, and offices of professors. On the third floor are the offices and the laboratories of pathology and bacteriology.

Connected with the main building and forming its east wing, is a structure of ninety by forty feet and two stories high. This contains the anatomical laboratories and the lecture room of anatomy, physiology, and surgery. Its floor is of impermeable cement.



The second extension from the main building is the boiler and engine room where power is generated for heating and ventilation.

**The Small Animal Building** is seventy by forty-four feet and three stories high. This building is thoroughly fireproof, well lighted, and provided with modern plumbing. On the first floor are the waiting room, janitor's room, drug and instrument room, operating room with modern equipment, and general ward containing twenty-two kennels. The kennels are well lighted, roomy, well drained, and separated from each other by marble partitions. Besides these rooms there is a ward for infectious diseases which is entirely separated from the rest of the building.

The second floor contains the offices and private laboratories for the Department of Materia Medica and Small Animal Clinic, small wards for skin diseases, eye diseases, quarantine wards, and wards for cats, making a total number of forty-two kennels.

Upon the third floor are the lecture room, museum, research laboratory, and student's laboratory for materia medica and pharmacy.

**The Medical Building** is three stories high, and one hundred and sixty by forty-four feet on the ground floor. The ground floor contains a clinic hall, drug room, physical examination room, elevator, office, wards for large animals, and a wagon-room for the ambulatory clinic. The first floor above, one hundred by forty-four feet with a side extension for the lecture room, contains wards for patients, lecture room, museum room, photographic room, offices, and research and student laboratories. The third floor contains living rooms for the groom, the student assistants, and the internes, and a large laboratory. The attic contains vermin-proof grain bins, and a storage room for hay, and communicates with the wards by means of vertical shafts. The stalls are built of iron and quartered oak with wide corridors for the accommodation of classes. The building is ornate in design and of modern construction; it is well lighted, fireproof, and heated throughout with steam; it has a modern system of plumbing and ventilation, and all animal wards are perfectly aired through large vertical shafts.

**The Farriery**, seventy by forty-four feet, and three stories high, is of the same type of construction as the medical building. On the ground floor are an isolation ward, horse and cattle wards, and a demonstration hall. These form a part of the clinical plant of the college. The first floor is fully equipped for the teaching of horseshoeing. It contains forges, shoeing stocks, laboratory desks and other equipment equal to that of the leading continental schools. The third floor is used for storage and for the department of horseshoeing.

**The Surgical Ward**, thirty-one by one hundred feet, is furnished with box and other stalls, heating apparatus, baths, and all necessary appliances. The floor is of impermeable cement, and the ceilings of painted sheet steel. There is also a fodder room of twenty by thirty feet.

**The Operating Theater** for the surgical clinic is located at the south end of the patients' ward and is connected therewith. The building is well lighted and is provided with modern plumbing. There is a recovery room, in which the patients may recover from the effects of anæsthetics, connected with the

operating table by an inclined plane, down which the patient may be conveyed. The clinic is well supplied with instruments and modern conveniences.

**The Isolation Ward**, fifteen by fifty-four feet, has its stalls absolutely separated from one another, and each opening from its own outer door. It has the usual impermeable floor, with walls of vitrified brick and painted steel ceilings.

**The Mortuary Building** has an impermeable floor, walls of enameled brick and painted steel plate ceilings, and is fitted with every convenience for conducting post mortem examinations and preparing pathological specimens.

**The Post Mortem Building** is in the rear of the main building and is furnished with room for instruments, and with water, heater, etc. The lighting and equipment, and the facilities for demonstration have received special attention.

A cottage for the groom completes the list of State buildings erected for the Veterinary College. The equipment has been made very complete for both educational uses and research.

For a more detailed account of the equipment and of the facilities for instruction see Departments, Methods, and Facilities (pages 11-23).

## ADMISSION

The entrance requirements to the New York State Veterinary College may be satisfied by either A or B as below:

A. By satisfying the Cornell University entrance requirements in 15 units, including English 3 units, a Foreign Language 3, History 1, Plane Geometry 1, Elementary Algebra 1, and Electives 6.

The candidate may satisfy A by presenting an acceptable high or preparatory school certificate, or by passing examinations of the Regents of the University of the State of New York, or of the College Entrance Examination Board, or of Cornell University, or by a combination of any of these methods.

The candidate should file his application and credentials with the Registrar of Cornell University at as early a date as possible. Blank forms and further information will be furnished by the Registrar upon request. A student satisfying entrance by A must, before the beginning of the second year, secure from the Education Department, as stated in B, a Veterinary Student Certificate and file the same with the Registrar of Cornell University.

B. By presentation of a Veterinary Student Certificate issued by the Education Department, Albany, New York.

The candidate wishing to satisfy entrance by B should apply directly to the New York State Education Department, Albany, N. Y., for a Veterinary Student Certificate. He should send to that Department official evidence of his qualifications to meet the requirements stated by the Department for a Veterinary Student Certificate.

Upon receipt of the Veterinary Student Certificate from Albany the candidate should file it together with an application for admission to the Veterinary College with the Registrar of Cornell University.

A student who is a candidate for the Veterinary degree must obtain from the Education Department a Veterinary Student Certificate at least three years before graduation.



**Special Students.** The Veterinary College admits as special students persons who are graduates of recognized veterinary colleges and who are not candidates for a degree. The annual tuition for such students is \$150.

**Admission to Advanced Standing.** Applicants for admission to advanced standing as members of the second, third, or fourth year class, must present the necessary educational qualifications for admission to the first year class, and must pass satisfactory examinations in all the work for which they desire advanced credit, or offer satisfactory certificates of the completion of this work in other schools whose entrance requirements and courses of study are equivalent to those of this college. No person will be admitted to any advanced class except at the beginning of the college year in September.

Graduates of veterinary colleges whose requirements for graduation are not equal to those of the New York State Veterinary College may be admitted provisionally upon such terms as the Faculty may deem equitable in each case, the applicant's previous course of study and attainments being taken into consideration. In this connection, attention is called to the legal requirements of academic and professional education for the practice of veterinary medicine in the State of New York. (See pages 8-9 and Appendix B.)

**Admission to Graduate and Special Work.** The ample facilities for graduate and special work in the New York State Veterinary College and in the allied departments in Cornell University, are open to graduates of this institution and of other colleges whose entrance requirements and undergraduate courses are equivalent. (See pages 8-9). For a course for practitioners see page 26.

## REGISTRATION

At the beginning of each term (see calendar for exact day and date) the student must register with the University Registrar. After registering with the University Registrar, he must register the same day with the Secretary of the Veterinary Faculty, Doctor Fish, Room 4, first floor of the Veterinary College.

No student, after having been once admitted to the University, will be allowed to register after the close of the registration day, except by special permission of the Faculty.

## REQUIREMENTS FOR GRADUATION

In order to receive the degree of Doctor of Veterinary Medicine (D. V. M.) candidates must satisfy all the entrance requirements on pages 8 and 9, must successfully pursue the courses named in the following schedule of studies, and must have paid all fees.

## SCHEDULE OF COURSES LEADING TO THE DEGREE OF DOCTOR OF VETERINARY MEDICINE (D.V.M.)

The work of the College is arranged to begin during the last of September and to close in June. This period is divided into two terms, see calendar page 2.

### PRESCRIBED FOUR-YEAR COURSE

	No. of Course	Credit 1st Term	Credit 2d Term	Total of Actual Hours
<b>First Year</b>				
Physics .....	2	5	—	80
Histology .....	6	2	4	200
Anatomy .....	1	3	—	448
" .....	2	1	—	
" .....	3	2	—	
" .....	4	—	6	
Physiology, Lectures .....	10	3	—	96
" Recitations .....	11	—	3	
Chemistry .....	1	—	6	144
Military Drill.....	1	—	—	96
		16	19	1064
<b>Second Year</b>				
Anatomy .....	5	4	—	256
" .....	6	2	—	
Physiology, Recitations .....	12	2	—	32
" Lecture .....	13	—	2	32
" Laboratory .....	14	2	—	80
Pharmacology .....	20	2	—	32
" .....	20a	—	2	32
Materia Medica .....	21	2	—	80
General Pathology .....	40	4	—	112
Bacteriology .....	43	—	5	152
General Surgery .....	30	—	4	112
Physical Diagnosis .....	51	—	2	32
Zoology .....	1a	—	3	96
Military Drill.....		—	—	96
		18	18	1144
<b>Third Year</b>				
Consulting Clinic.....	34	1	1	96
Small Animal Clinic.....	25	1	1	96
Surgical Exercises.....	31	1	—	48
Medicine .....	50	2	3	80
Animal Husbandry.....	20	3	3	128
Autopsies .....	—	1	1	96

# VETERINARY COLLEGE

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<b>Third Year—Continued</b>	No. of Course	Credit 1st Term	Credit 2d Term	Total of Actual Hours
Special Surgery.....	32	5	—	80
Special Pathology .....	41	2	2	112
Parasitology .....	44	2	—	56
Physical Diagnosis.....	—	1	—	16
Diseases of Small Animals.....	22	—	2	32
Infectious Diseases, Lectures .....	42	—	2	32
“ “ Laboratory.....	—	—	1	40
Surgical Anatomy.....	—	—	1	40
Urine Analysis.....	15	—	1	40
		19	18	992
<b>Fourth Year</b>				
Materia Medica.....	23	2	—	
Surgical Clinic.....	33	2	2	
Ambulatory Clinic .....	53	2	2	
Small Animal Clinic.....	25	1	1	
Consulting Clinic....	34	1	1	
Embryology.....	—	2	—	
Horseshoeing .....	52	1	2	
Medicine .....	—	3	2	
Immunity .....	—	2	—	
Botany .....	—	3	—	
Autopsies .....	—	1	1	
Meat Inspection.....	—	—	1	
Dairy Inspection.....	—	—	1	
Obstetrics.....	36	—	3	
Diseases of the Genital Organs.....	—	—	2	
Ophthalmology .....	55	—	1	
Hygiene .....	56	—	1	
		20	20	

## DEPARTMENTS, METHODS, AND FACILITIES

In addition to the departments of the Veterinary College proper, the resources of the entire University are at the disposal of the College by virtue of the action of the Board of Trustees at the time when authorization was given for its location on the Campus of Cornell University (p. 5 under Foundation). Among the facilities of the University of especial value to the Veterinary College may be mentioned the museums of vertebrate and invertebrate zoology including entomology, of agriculture, of botany, and of geology. The University Library, with its 500,000 bound volumes, 62,000 pamphlets, and 2,000 current periodicals and transactions of societies is likewise as freely open to Veterinary College students as to other University students (see also Flower Library).

The departments with their special equipments, facilities, and methods, are given approximately in the order in which the subjects are pursued in the veterinary curriculum.



The courses required for graduation are given in the schedule of studies, pages 10-11, but the additional courses offered by the various departments are thought to be of especial value to veterinary students and may be elected by them whenever they have satisfied the requirements.

## PHYSICS

The instruction in physics is given in Rockefeller Hall. The following course is required of freshmen in the veterinary course:

Courses in physics which are required by various colleges or departments of the University are indicated below. For the terms in which these courses are to be taken the student should consult the announcement of the college or department concerned. Agriculture, Physics, 2; Chemistry (B. Chem.), Physics 2, 10 (2 hours), 9c, 14 (4 hours); Civil Engineering, Physics 2, 7, 14 (2 hours); Mining Engineering, Physics 2, 7, 14 (4 hours); Sibley College, Physics 3, 8, 9, 14 (4 hours); Veterinary College, Physics 2.

Students preparing for the Cornell University Medical College should take Physics 2 and 10 (3 hours).

Students intending to follow physics as a profession, either in education or in technical physics, for which there is an increasing field in the industries as well as in research and testing laboratories, should consult the department as to their choice of courses.

**2. Introductory Experimental Physics.** Repeated in second term, credit five hours. Three lectures and two class-room periods a week. Lectures: T Th S, 9; M W F, 11, Rockefeller A. Professor NICHOLS and Assistant Professor GIBBS. Class-room work: Hours to be assigned. Required of candidates for B.Chem., C.E., B.S., and D.V.M.

Entrance physics is not accepted as an equivalent of this course.

## CHEMISTRY

The following are the courses pursued by veterinary students and must be taken in the order here indicated.

**1. Introductory Inorganic Chemistry.** Lectures, recitations, and laboratory. Repeated in second term, credit six hours.

**1a. Lectures.** T Th S, 11, or T Th S, 12, Professor BROWNE and Mr. GRIFFIN. Rockefeller A.

**1b. Recitations,** F, 8 (one hour a week to be arranged), and laboratory M F, 2-4:30; T Th, 2-4:30; W, 2-4:30; and S, 8-10:30. Mr. FOGLESONG, and Messrs. POLLARD, COLONY, LIPPINCOTT, SOHON, HUBACH, and RYNALSKI.

Entrance credit in chemistry does not carry with it University credit in course 1. If a student entering the University from a preparatory school desires credit in course 1 he must pass an examination set by the Department of Chemistry. This examination is held both in New York City and in Ithaca on the same day in September as the entrance examination. University credit in course 1 that is obtained by passing this examination does not carry with it entrance credit in chemistry.

Examinations for those who were unavoidably absent from the final examination in course 1 will be held at 2 p. m. on the day before instruction begins in the fall.

**32. Elementary Organic Chemistry.** First term, credit four hours. Lectures and laboratory work, four hours; lectures alone, three hours. Lectures, oral and written reviews, and laboratory practice. M W F, 12, West Sibley, Lecture Room No. 4. Laboratory, Th, 2-5: Messrs. JACKSON, FRIDERICI, CORNWELL, and CHAPPELL.

This optional course may be taken by students in veterinary medicine who have satisfactorily completed course 1 in chemistry.

**MICROSCOPY, HISTOLOGY, EMBRYOLOGY**

Professor: B. F. KINGSBURY.

Instructor: H. M. KINGERY.

Assistant: JOHN S. LATTA, B.S.

This department offers instruction in the theory and use of the microscope and its accessories; in vertebrate histology, in vertebrate embryology, and in histologic and embryologic technique; and opportunities for research in all of these subjects. For all the courses the department is well supplied with the best modern apparatus.

The rooms for the use of this department are on the basement and second floors of Stimson Hall. They consist of a large general laboratory, a research laboratory, preparation room, and laboratories for the instructing staff, where also special demonstrations of difficult subjects are given to small groups of students.

In the courses outlined below, the student gains a practical knowledge of the normal structure of the tissues and organs of the animal body by the direct study of them in the laboratory. From time to time, the ability of the student to recognize the normal structure is tested by the identification of unlabelled preparations. The laboratory work is supplemented by recitations, reviews, and lectures covering the general aspects of the subject.

**6. Microscopy and Histology.** Throughout the year, credit six hours. Required of first year students. The exercises each week are as follows: first term, laboratory work, T, 10-1, demonstration, lecture, or recitation, F, 9; second term, laboratory, W, 8-10, F, 10-1, S, 8-10.30. Lecture, Th, 8. Instructor KINGERY and assistants.

**Microscopy.** The aim is to give a working knowledge of the theory and use of the microscope and its accessories, methods of mounting microscopical specimens, etc.

**Histology.** This includes the study of the fine anatomy of the animal body, and also the fundamental methods of histologic investigation and demonstration.

**9. Embryology.** First term. Credit, two hours. Required of seniors. The exercises each week are as follows: laboratory work, S, 10-1; lecture, M, 9. A study of the development of the domestic animals, (chiefly common fowl, pig, sheep, cow, horse), the fetal membranes and placenta, together with a general consideration of sex, inheritance, and the laws of development, maternal impressions, etc.

**ANATOMY**

Professor: G. S. HOPKINS.

Assistant Professor: EARL SUNDERVILLE.

Student Assistant: G. K. COOK.

The instruction in anatomy is by lectures, recitations, and laboratory work, the last being by far the most important. The objects of the lectures are to present facts of general morphology as related to the horse and other domestic animals; to direct attention, as far as possible, to the correlation of structure and functions of the various organs of the body; and to emphasize the anatomical



relations of those parts most subject to surgical operations. The main reliance however, is placed upon the work done in the laboratory. Thorough, practical knowledge of anatomy can be acquired in no other way, and every student, before taking his final examinations, will be required to dissect all parts of the horse or the ox, and such parts of other domestic animals as may prove most expedient.

The courses in anatomy extend over two years. The first year is devoted to the study of bones, joints, muscles, and certain of the viscera; the second year, to the vascular and nervous systems and to the organs of special sense.

In the study of osseous, muscular, digestive, and respiratory systems, the skeletons in the laboratory and the Auzoux models afford valuable assistance. In the museum there are accumulating series of specimens which illustrate, in a typical manner, some of the more important anatomical features of the various domestic animals.

The city and surrounding country supply abundant anatomical material of almost endless variety: horse, ox, sheep, and swine, dog, cat, rabbit, and guinea pig, both adult and in all stages of fetal development.

1. **Comparative Osteology.** Three hours. First term. Lectures, W, 9. From September to February there will be six periods of laboratory work, M T Th F, p. m., Th, 10-12, S, 10-1.

2. **Arthrology.** One hour. First term. This course immediately follows course 1. Professor HOPKINS and Assistants.

3. **Myology and Abdominal Viscera.** Three hours. First term. In this course the dissection of muscles is begun. Lectures, laboratory hours, etc., the same as in the preceding courses. Professor HOPKINS, Assistant Professor SUNDERVILLE, and Assistants.

4. **Myology, Thoracic and Abdominal Viscera, Lymphatic System and Organs of Special Senses.** Five hours. Second term. Lectures and written reviews, M, 10. One or more weekly recitations. Laboratory work, M, 8-10, T Th, 2-5, W, 10-1. Professor HOPKINS, Assistant Professor SUNDERVILLE, and Assistants.

5. **Blood Vessels and Nerves of the Arm and Leg.** Three hours. First term. Laboratory work. M T Th F, p. m., F, 9-12, S, a. m. Professor HOPKINS, Assistant Professor SUNDERVILLE and Assistants.

6. **Blood Vessels and Nerves of the Head; the Central Nervous System and Genital Organs.** Three hours. First term. Laboratory hours the same as in course 5. Professor HOPKINS, Assistant Professor SUNDERVILLE, and Assistants.

7. **Surgical Anatomy.** Second term. Hours to be arranged. The regions of the body most subject to surgical operations will be studied with special reference to operative surgery.

Open to those who have completed the required courses in anatomy and to practitioners. Professor HOPKINS, Assistant Professor SUNDERVILLE.

8. **Advanced Anatomy.** Two or more hours. Laboratory periods in the first term, to be selected from the following: M T Th F, p. m., S, a. m.; and in the second term the following: M T Th F, p. m., S, a. m. The work will



be on the osseous, vascular, and nervous systems; the viscera and genito-urinary organs of carnivora; the viscera, genito-urinary organs, and the lymphatic system of ruminants. Certain regions of the horse, of special surgical importance may also be reviewed. Professor HOPKINS and Assistant Professor SUNDERVILLE.

### PHYSIOLOGY

Professor: P. A. FISH.

Assistant Professor: C. E. HAYDEN.

It is the aim of this department to select from a wide field of important topics, those which will be of greatest use to the student in comprehending the vital processes of the animal body. Without a complete understanding of the normal functions, it is useless to attempt progress in the proper conception of diseased conditions.

The proper correlation of work in the laboratory and in the recitation and lecture room, it is believed, will afford to the student a more comprehensive grasp and understanding of the perspective and symmetry of the subject than can otherwise be obtained.

The lectures are illustrated with lantern slides, charts, histological preparations, dissections, and practical demonstrations.

The laboratory is located on the second floor of the Veterinary College. It is well lighted and ventilated and equipped with new apparatus. The equipment includes kymographs, induction coils, sphygmographs, cardiographs, circulation schemes, tambours, centrifuges, microscopes, and other apparatus for complete and satisfactory work.

Every encouragement is offered to those properly fitted to pursue their work beyond that given in the regular curriculum.

**10. The Physiology of the Nutrition and Secretion of the Domesticated Animals.** First term, credit three hours. M W F, 10. Professor FISH.

**11. Physiology Recitations.** Second term, credit three hours, T Th F, 9, or M, 11, T Th, 10. Professor FISH and Assistant Professor HAYDEN.

**12. Physiology Recitations.** First term, second year, credit two hours, T F, 8; or T, 9, S, 8. Professor FISH and Assistant Professor HAYDEN.

**13. The Physiology of the Muscular and Nervous Systems.** Second term, second year, credit two hours. M W, 10. Assistant Professor HAYDEN.

**14. Physiological Laboratory.** A portion of the course is devoted to chemical physiology. Artificial digestive juices are tested upon the various kinds of food-stuffs by the students and careful notes kept of the various changes. Milk, bile, and blood are also studied, with a spectroscopic examination of blood. A portion of the work is devoted to a study of the phenomena associated with the circulatory, respiratory, muscular, and nervous systems. Students are required to obtain and preserve graphic records of these phenomena, whenever possible. Certain experiments requiring special apparatus and special care are performed as demonstrations, by the instructors, with the assistance of the students when possible. First term, second year, five hours a week. M, 11-1 and T, 10-1; or T, 2-5 and Th, 8-10. Professor FISH, Assistant Professor HAYDEN, and Assistants.

15. **Urine Analysis.** Laboratory work devoted to the comparative study of urine. Examinations are made of human urine and that of the domesticated animals, especially the horse. In addition to the chemical examinations some attention will be devoted to a microscopic study of urinary deposits. Third year, second term, three hours a week. F, 10-1; or S, 10-1. Professor FISH, Assistant Professor HAYDEN, and Assistants.

16. **Advanced Physiology.** This course will be adapted to the needs of the students and will consist principally of laboratory work supplemented by such reading and reports as may be necessary. Five or more hours a week. Professor FISH and Assistants.

### MATERIA MEDICA AND SMALL ANIMAL CLINIC

Professor: H. J. MILKS.

Instructor: ———.

The instruction in pharmacology consists of class room and laboratory work. In pharmacology the work includes not only the materials of medicine, but also their preparation, use, and physiological actions. Allowing for certain exceptional differences, there is in general a resemblance in the action of drugs in the lower animals and in human beings. The clinics furnish abundant material for the study of applied therapeutics and of the action of the different drugs.

20. **Pharmacology.** A study of the actions and uses of the various drugs and their preparation. A varied collection of the crude drugs and their official preparations is available. The course is conducted in the form of lectures with short weekly examinations. First term, M W, 10. Professor MILKS.

20a. **Pharmacology.** A continuation of course 20. Second term. T 8, F, 9.

21. **Materia Medica and Pharmacy Laboratory.** The work in this course consists of the study of a selected group of inorganic drugs and of certain crude organic drugs and their official preparations, and in making pharmaceutical preparations such as syrups, emulsions, spirits, liniments, tinctures, fluid extracts, extracts, ointments, pills, etc. In his study the student is required to write concise notes of the physiologic action of the drugs examined and to make tests of their incompatibility. In addition to this, each student will have practical experience in writing and compounding prescriptions. The importance of a discriminating and accurate system for dispensing medicines is thoroughly emphasized. First term, five hours a week. W, 11-1, and Th, 10-1; or M, 11-1, and T, 10-1. Professor MILKS and ———.

22. **Diseases of the Small Animals.** This course deals principally with canine and feline diseases. Two lectures or recitations throughout the second term of the third year. M W, 9. Professor MILKS.

23. **Recitations in Materia Medica and Therapeutics.** Fourth year, first term. T, 9, Th, 9. Professor MILKS.

24. **Advanced Work.** This course will consist principally of laboratory exercises on the physiologic action of drugs on animals and will be supplemented by collateral reading and reports. Five or more hours a week. Professor MILKS and ———.

**Clinic for Small Animals.** In this clinic, dogs and cats form the majority of patients. The students have close supervision of the cases; they compound and administer medicines and assist in the surgical operations.

**25. Small Animal Clinic.** Six actual hours a week. Daily, 2-3 p. m. Professor MILKS and ———.

This course is required of junior students in their second term. The seniors take it throughout the year. This clinic is given at the same time as the consulting clinic (course 34). Students alternate their work by transferring from one clinic to the other each month.

## ZOOLOGY

**1a. Elements of Zoology.** Second term, credit three hours. Assistant Professor REED and Mr. SHADLE. Lecture, T, 10, McGraw 5; laboratory, T Th, 2-4.30, McGraw 2b.

An elementary study of the principles of zoology, the adaptations of animals to mode of life, the classification of the larger and economic divisions, and the zoology of domestic animals. Laboratory fee, \$3.

## COLLEGE OF AGRICULTURE—ANIMAL HUSBANDRY

**20. General Elementary Course in Animal Husbandry.** For students in the New York State Veterinary College only. Throughout the year, credit three hours each term. Two lectures and one practicum each week. Animal Husbandry Building. Lectures M W, 10, Practice, W, 11. Professors WING, HARPER, and SAVAGE.

The general principles of breeding and feeding domestic animals with practice in the formulation of rations and the judging and scoring of animals.

## SURGERY

Assistant Professor: J. N. FROST, Veterinary Surgery.

Instructor: E. B. HOPPER.

The instruction consists of class room and laboratory work designed to produce symmetrical training for practice.

## CLASS ROOM WORK

Course 30 (see courses, pages 18-19), General Veterinary Surgery, with Department of Pathology and Bacteriology (General Pathology), and Course 40, Course 31 of Surgery (Surgical Exercises), constitute a complementary group intended to impart a general knowledge of the principles of surgery, surgical pathology and therapeutics, and operative technique.

Course 32, a total of eighty-five lectures and recitations, is devoted to the surgery of the various regions of the body.

The College possesses an extensive collection of surgical instruments and apparatus of home and foreign make, illustrating the history of veterinary surgery as indicated by the means employed in the cure of diseases.

The College has acquired since its foundation a very extensive pathologic collection illustrative of surgical diseases to which has been added from the surgical



and obstetrical clinics a very large amount of material of great value for teaching purposes. Further important additions are made by veterinary practitioners.

The surgical collection is especially rich in specimens illustrating the diseases of the teeth.

#### CLINICS AND LABORATORY WORK

The laboratory work in the Department of Surgery includes Surgical Exercises and Clinics and Obstetrical Exercises.

The course in surgical exercises comprises seventeen periods of three hours each, in which the student is required to perform all the important operations on horses and cattle. The animal for a given exercise is placed under general anæsthesia, which is maintained until the close of the period, when the subject is destroyed. The maintenance of chloroform anæsthesia for three consecutive hours gives to the student valuable experience in the technic of general anæsthesia, for which there is a constantly increasing demand. Strict method is enforced in relation to asepsis and antisepsis, arrest of hemorrhage, suturing, and dressing, so that while acquiring skill and a knowledge of the appearance, resistance, and general characters of living tissues, the student also forms proper habits in surgical procedure.

Obstetric exercises are given by appointment throughout the year. For this work a specially constructed apparatus, or "phantom," is employed in such a manner as to closely simulate actual working conditions in obstetrical practice. Newly born calves are procured, killed, and so placed in the apparatus that the various corrections of position and embryotomic operations are carried out by the student under the direction of the instructor in charge.

#### CLINICAL SURGERY OF THE LARGER ANIMALS

M T F, 11-1, first term; T W F, 11-1, second term. One year. Students in charge of cases are required to give necessary daily attention.

The surgical building has a thoroughly modern equipment in every respect. There is a spacious operating room fitted with operating table, stocks, and other conveniences, a commodious recovery room for chloroformed animals, and other accessory rooms for instruments, drugs, and other necessities. The entire structure is planned to secure the highest efficiency in aseptic and antiseptic surgery. Senior students assist regularly in the surgical operations.

General and local anæsthetics are regularly used in painful operations, and the student is taught to eliminate as far as practicable the element of pain in surgery. Instruments and apparatus of the most approved pattern are kept directly at hand in the operating room, and the student becomes familiar with their good and bad points by actual use.

Special apparatus for investigation is supplied as needed. Advanced students are called upon to assist in the various investigations, and thus become not only more familiar with surgical manipulations, but also inspired to study methodically and effectively the many questions in surgical pathology and therapeutics. They also become better prepared to cope promptly and properly with the many atypical cases constantly occurring in general practice.

**30. General Surgery.** Second year, second term. Four recitations or laboratory periods a week. T Th, 9, Th or S, 11, or M, 11, F, 3. Assistant Professor FROST.

Prerequisite courses 1, 2, and 3 in anatomy, course 10 in physiology, course 6 in histology and embryology, and course 40 in general pathology.

**31. Surgical Exercises.** Three hours a week of laboratory work in surgical operations upon anæsthetized animals. Third year. First term. Th, 10-1. or W, 10-1. Assistant Professor FROST and Dr. HOPPER.

**32. Special Surgery.** Third year. First term, five lectures or recitations a week. M T W Th F, 9. Assistant Professor FROST.

**33. Surgical Clinics.** Six actual hours or more a week throughout the fourth year. M W F, 11-1, first term. T W F, 11-1, second term. Assistant Professor FROST and Dr. HOPPER.

Prerequisites, courses 30 and 31.

**34. Consulting Clinic.** Six actual hours a week for three terms. Daily at 2 p. m. Assistant Professor FROST and Dr. HOPPER.

## OBSTETRICS AND DISEASES OF BREEDING CATTLE, JURISPRUDENCE

Professor: W. L. WILLIAMS.

Instructor: C. M. CARPENTER.

**35. Jurisprudence.** A series of eight lectures is given during the second term of the third year dealing with the general responsibilities of veterinarians to the public, to stock owners, and to professional colleagues. The course deals largely with the ethics of veterinary practice and suggestions for beginners regarding the general features of veterinary practice. Some of the more general features of the laws of interest to veterinarians are discussed.

**Obstetrics and Research in the Diseases of Breeding Cattle.** The laboratory work in obstetrics consists in part of obstetric exercises, taught conjointly with surgical exercises as a part of Course 31 (see page 19). Clinical instruction in obstetrics is given in Courses 34, Surgical Clinics (page 19), and 53, Ambulatory Clinic (page 22).

**36. Obstetrics and the Diseases of Breeding Animals.** Four lectures or recitations per week in the second term of the fourth year. M T W Th, 10. Professor WILLIAMS. Prerequisite: Course 30.

It is aimed in this course to give a general survey of the subject of obstetrics, and to include a thorough consideration of the diseases of the genital organs including sterility and abortion.

**Opportunities for Research.** The activities of the department, aside from the instruction work indicated in Course 36, are devoted to research work in connection with the diseases of breeding cattle, especially with the phenomena of sterility and abortion in animals of breeding age and of those diseases of new-born calves having intimate relation to the diseases of the genital organs of cows. Opportunity is afforded for participation in the investigations by graduate students having acceptable preparation.



**COMPARATIVE PATHOLOGY, BACTERIOLOGY, AND MEAT INSPECTION**

Professors: V. A. MOORE, Comparative Pathology and Bacteriology; S. H. BURNETT, Comparative Pathology. Professor EARL M. PICKENS, Laboratory Diagnosis; S. A. GOLDBERG, assistant professor of pathology.

Instructor: W. A. HAGAN.

Assistant: E. S. STONE, Laboratory Diagnosis.

Student Assistant: P. T. I. CONNOLLY.

The instruction in pathology and bacteriology is given by means of lectures, recitations, and laboratory work. In general pathology, Ziegler's textbook is followed, supplemented by the results of more recent investigations as they are found in current literature and special monographs. The laboratory work comprises examinations of microscopic preparations of morbid tissues and the study of gross specimens. Opportunity is offered for more extended work both in technique and in the study of pathological histology. For this highly important work the laboratory is especially well equipped.

The bacteriological laboratories are well equipped with modern apparatus. The students are, under proper supervision, instructed in the technique necessary for a practical working knowledge of bacteriology. The more important species of pathogenic bacteria are studied. The special methods which are necessary for diagnosing such diseases as tuberculosis, anthrax, glanders, and the infectious swine and poultry disorders receive careful attention.

For those who wish to do advanced work in any of these subjects excellent facilities are afforded. As the College is constantly investigating outbreaks of infectious diseases among animals in the State, an abundance of working material is assured. This enables the student to come into touch with practical work in bacteriological diagnosis.

As is seen from the above, is the aim of this department to drill the students, by means of actual work, in the technique necessary for them to apply successfully in their future professional duties the knowledge acquired in the study of pathology and bacteriology. To this end the courses of instruction have been carefully arranged, and for this purpose the laboratories have been equipped.

**40. General Pathology.** First term. Prerequisite, normal histology and at least one year's work in anatomy and physiology. Two recitations and five hours laboratory work each week. Recitations M W, 9. Laboratory, Section I, W, 11-1, Th, 10-1; Section II, T, 2-5, Th, 8-10. Professors MOORE and BURNETT.

**41. Special Pathology.** Third year. Prerequisite course 40. One lecture and one laboratory period each week. Professor BURNETT and Dr. GOLDBERG.

**42. Pathology of Infectious Diseases.** Second term. Open to students who have taken courses 40 and 41, and have taken or are taking course 43. Two hours. Recitations F S, 9. Laboratory, Section I, T, 8-10.30; Section II, T, 3-5.30. Professor MOORE.

**43. Bacteriology.** Second term. Five hours. Open to students who have taken or are taking course 6 in microscopy. Two lectures and 7½ hours laboratory work each week. Lectures M W, 9. Laboratory work, Section I, M, 2-4.30, W, 11-1, F, 10-1; Sec. II, T, 11-1, Th, 10-1, S, 8-11. (Sections I and II will be



nearly filled with veterinary students. Others wishing to register in this course must first apply to the department.) Professor MOORE and Dr. HAGAN.

(The lectures may be taken as a two-hour course.)

44. **Parasites.** First term, two hours. This course deals with the common parasites of domesticated animals with special reference to their classification and identification and to the morbid changes caused by them. Recitation, W, 8. Lab. Sec. I, M, 3-5.30; Sec. II, S, 8-10.30. Dr. HAGAN.

45. **Research in Bacteriology and Pathology.** Laboratory work. Prerequisite courses 40 and 43. Professor MOORE, Professor BURNETT, and Dr. HAGAN.

46. **Laboratory Methods of Diagnosis.** Prerequisite courses 40 and 43. Instruction by appointment in the application of methods used in histology, pathology, and bacteriology for the diagnosis of general and specific diseases. Assistant Professor PICKENS.

47. **Post Mortem Examinations.** Throughout the senior year by appointment. Students taking the four-year course will have additional work consisting of histological and bacteriological examinations of material obtained at the autopsies. To these students two hours credit each term will be given. Professor BURNETT and Dr. GOLDBERG.

48. **Meat and Dairy Inspection.** One hour. Second term. Fourth year. Lecture, Th, 9. Professor MOORE.

49. **Seminary.** Throughout the year. A seminary for graduate and advanced students in the department each week at 5:00 p.m. on a day to be arranged. Professors MOORE, BURNETT, HAGAN, and PICKENS.

## VETERINARY MEDICINE

Professor: D. H. UDALL.

Instructor: W. D. WAY.

The course in veterinary medicine, principles and practice, extends over the last one and one-half years of undergraduate study, the subjects of the second year being distinct from, and complementary to, those of the first. It includes the constitutional dietetic and toxic affections and the non-infectious maladies of the different systems of organs—digestive, respiratory, circulatory, urinary, cutaneous and visual—of the various genera of domestic animals. The wide scope of the course, covering as it does the varied manifestations of a given morbid condition in all domestic animals in turn, the complications in each, caused by constitution, environment, utilization, microbial infection, etc., and the application of prophylactic and therapeutic measures to all in turn, gives a breadth and soundness of view which should render the student a reliable and skilful veterinary pathologist, physician, and sanitarian.

The course on contagious diseases deals with the general subject of infection and contagion; the microbiology of diseases in which micro-organisms constitute the essential factor; the accessory and restrictive environment, such as condition of soil, water, air, climate, culture, season, weather, animal industries, trade, migration war, consumption of animal food etc.; the diagnosis of the different plagues; the various methods of suppression by the individual owner, the municipality, town, county, state, or nation; and the exclusion of pestilences from

a country. The transmissibility of each contagious disease to different genera of animals, from animal to man, and from man to animal, together with the susceptibility of each genus to immunization and the best known means of securing this, receive due attention.

Enzootic diseases are carefully studied, and the various causative factors in location, environment, and in constitutional or racial susceptibility are fully dealt with, as subsidiary to prevention and treatment.

Our proximity to the city and to a well stocked agricultural country tends to secure a greater variety of patients than can be had in a large city remote from country flocks and herds. Students take charge of individual cases in the hospital and ambulatory clinic and keep a record of cases with treatment. The course also includes instruction in diagnosis. Through the medium of laboratory guides students are expected to acquire a methodical system of examination by repeated systematic observations on both normal and diseased animals. This work involves the use of various special diagnostic methods taught in other laboratories of the College, such as examination of the blood, urine, and feces, the application of sero-diagnostic methods, etc.

**Ambulatory Clinic.** An ambulatory clinic or out-clinic has been established for the purpose of giving instruction to students under conditions identical with those encountered in private practice.

Proper conveyances and equipment have been provided and an opportunity offered for observing such diseased farm and dairy animals as cannot be entered in the clinics at the College. The student thereby not only has an opportunity to see cases not readily brought to the college clinic, but also assists in handling cases in the same manner and under the same environment as is required of the country practitioner.

As the vicinity of Ithaca is largely devoted to dairying, valuable clinical material relating to obstetrics and the diseases of dairy cows is available and extensively used.

**50. Veterinary Medicine, Principles and Practice.** Lectures or recitations. Third year. First term: T Th, 8; second term, M W F, 8. Fourth year. First term: M W F, 8; Second term, T Th, 8. Professor UDALL or Dr. WAY.

**51. Physical Diagnosis.** Two recitations or lectures a week. Second term, second year, W Th, 8. One hour. First term, third year, M, 8. Dr. WAY or ———.

**52. Horseshoeing.** One lecture or recitation a week, fourth year. First term. Sec. I, 10-12, Th, 11-1; Second term, M, 11-1, S, 9-11. Assistant Professor H. ASMUS.

**53. Ambulatory Clinic.** Professor UDALL and Dr. WAY.

**55. Ophthalmology.** One lecture or recitation a week, fourth year, second term. M, 8. Dr. WAY or ———.

**56. Hygiene.** One lecture or recitation a week, fourth year, second term. F, 8. Dr. WAY or ———.

### SPECIAL LECTURES

During the year, lectures on special topics in medicine will be given by eminent practitioners and teachers of veterinary medicine. These will form a part of the instruction in this department.



## MILITARY SCIENCE AND TACTICS

1. **Practical and Theoretical Military Training.** Throughout the year. Every male student, a candidate for a baccalaureate degree, who is required to take five, six, seven, eight or more terms in residence, must take, in addition to the scholastic requirements for the degree, one, two, three, or four terms respectively in the Department of Military Science and Tactics. Three hours one afternoon as assigned. Drill Hall.

The requirements in Military Science and Tactics must be completed in the first terms of residence; otherwise the student will not be permitted to register again in the University without consent of the University Faculty.

The Course of training is that prescribed by the War Department as basic for units of the Reserve Officers Training Corps, and includes physical drill, infantry drill, rifle shooting, personal hygiene, first-aid, camp sanitation, signaling, bayonet combat, map reading, military history, construction of intrenchments and obstacles, and the fundamental principles of infantry tactics.

2. **Elective Military Training.** Throughout the year. Credit two hours a term. Hours by assignment. Drill Hall.

This is the advanced course, prescribed by the War Department for units of the Reserve Officers Training Corps, and includes three hours each week in the performance of the duty of officer or non-commissioned officer with organizations undergoing the training given under Course I, and two hours each week of theoretical instruction in preparation for such duties. Prerequisite Course I, or its equivalent.

Course 2 may only be elected by permission of the Dean of The New York State Veterinary College, and the Professor of Military Science and Tactics. To enjoy the benefits offered by the Federal Government the student must agree to continue the course for four terms, and to attend two summer camps having a duration of one month each.

## PHYSICAL TRAINING

1. **For Freshmen Excused from Drill.** Throughout the year, three periods a week. Class and squad work and prescribed exercises. Messrs. O'CONNELL, BRINK, and SPORE.

2. **For Sophomores Excused from Drill.** Throughout the year, three periods a week. Class and squad work and prescribed exercises. Messrs. O'CONNELL, BRINK, and SPORE.

## ADVANCED WORK AND RESEARCH

The opportunities for study and investigation offered to advanced students in the College and in the various departments of Cornell University are very great. The situation of the College gives it a great variety as well as abundance of material for research, and the facilities for prosecuting the work are ample. To graduate and advanced students, every opportunity and encouragement will be offered for carrying on independent investigations. For special courses in advanced work and research, see under the various departments, pages 12-23.



## ROSWELL P. FLOWER LIBRARY AND OTHER LIBRARY FACILITIES

**The Flower Library.** By a gift of five thousand dollars to Cornell University for the purpose, the Honorable Roswell P. Flower, in 1897, laid a broad foundation for a thoroughly good working veterinary library. In order to insure the permanent usefulness of this library, Mrs. Flower, in 1901, gave ten thousand dollars for an endowment fund, the annual income from which is to be used for the purchase of books. The books and periodicals obtained with this fund have been considerably increased by donations from various persons, and by books obtained from the income of the College; the veterinary library, which contains four thousand seven hundred and thirty-seven volumes, is also largely supplemented by the University Library, and by loans of books and periodicals therefrom.

The periodical room at the College, which is open daily from 7 a. m. to 6 p. m., contains the leading veterinary and medical periodicals in English, French, and German. A card index to the original articles appearing in these periodicals is a unique feature. In this room are also found Foster's Encyclopedia, Medical Dictionaries, and the Index Catalogue of the Medical Library of the Surgeon General's Office and a faculty card bibliography.

The Flower Library Room, which is open for free consultation at hours convenient to the students, contains most of the books and bound periodicals belonging to the library or lent to it from the University Library. Books bearing especially upon the work of any laboratory course are kept upon the shelves of the laboratory where they are constantly accessible. Books may be drawn from the library for home use by veterinary students.

The books and bound periodicals and transactions in the University Library upon veterinary and human medicine, with allied sciences, exceed ten thousand volumes. Over two thousand periodicals and transactions are received, many of them pertaining directly to medicine and biology. Veterinary students have free access to the University Library and reading room which are open daily from 8 a.m. to 10.45 p. m.

## SEMINARIES

The different departments hold seminars or special conferences for their advanced and graduate students. The purposes of these seminars are: the discussion of methods of advanced and independent work, such as is expected of those who are preparing theses or prosecuting any special investigation; the presentation of the result of investigations and the progress of knowledge in the various departments; reports of students on the progress of their work. The students incidentally gain facility in public speaking and in preparation for taking a creditable part in the meetings of veterinary or medical societies.

## SOCIETY OF COMPARATIVE MEDICINE

This is a student society organized for the purpose of giving mutual aid in gaining general and special medical knowledge, and facility in conducting the exercises of the meetings and in presenting papers and discussions in a clear and forcible manner before an audience.

## NONRESIDENT LECTURERS

Practitioners and others working in the interests of veterinary medicine from time to time give lectures to the veterinary students. This feature undoubtedly broadens the scope of instruction and brings the student in closer touch with matters pertaining to practice, meat inspection, and sanitation.

## TUITION AND OTHER FEES

**Free Tuition.** In the words of the law for the administration of the New York State Veterinary College, "no tuition fee shall be required of a student pursuing the regular veterinary course, who, for a year or more immediately preceding his admission to said veterinary college, shall have been a resident of this state."

For students, not residents of New York State, the annual tuition is \$150 of which \$85 is to be paid at the beginning of the first term, and \$65 at the beginning of the second term.

**Other Fees.** Every person taking laboratory work is required to pay for the materials actually used. For the first year the laboratory fees will approximate \$45; for the second year, \$42; for the third year, \$15. The average is thus a little over \$35 a year. Most departments require an additional precautionary deposit in order to insure against breakage and excessive use of material. The above sums, therefore, represent the minimum charges.

A matriculation fee of \$5 is charged all students on entering the University.

Every student is charged an Infirmary fee of \$3 a term, payable at the beginning of each term. In return for the Infirmary fee, any sick student is, on his physician's certificate, admitted to the Infirmary, or, at the discretion of the Infirmary committee, to the Ithaca City Hospital, if receivable under its rules, and is given without further charge a bed in a ward, board, and ordinary nursing, for a period not exceeding two weeks in any one academic year.

A fee of \$10 is charged to cover the expenses of graduation, diploma, etc. This fee must be paid at least ten days before commencement. The amount will be refunded, should the degree not be conferred.

Living expenses in Ithaca vary from \$7 to \$12 a week. Books, instruments, stationery, etc., cost \$15 and upwards a year.

For further information concerning fees see the General Circular of Information.

## SCHOLARSHIPS, FELLOWSHIPS, AND PRIZES

**University Undergraduate Scholarships.** At a special examination held at the beginning of the fall term in each year, eighteen scholarships, continuing for two years and of an annual value of \$200 each, are thrown open to competition by all members of the incoming Freshman class. For a full statement of the provisions regulating the award and tenure of these University Undergraduate Scholarships, see the General Circular of Information.

**University Scholarship for Graduates.** One University Graduate Scholarship of the value of \$200 is annually awarded to a graduate in veterinary medicine.



**The Horace K. White Prizes.** These prizes established by Horace K. White, Esq., of Syracuse, are awarded annually to meritorious students in the graduating class of the College. They consist of a prize of \$15 to the first in merit, and a prize of \$10 to the second in merit.

**The Hollingworth Honorarium for Research.** An honorarium of \$50 for advanced work or research, in pathology and bacteriology established by Dr. W. G. Hollingworth of Utica, is awarded to a senior on his general standing in the work of the first two years and his proficiency in the first courses in pathology and bacteriology. It requires that the student receiving it shall do satisfactory work in these subjects during his senior year.

**The Jane Miller Prize** of \$50 in veterinary physiology is awarded to the student or students having the highest standing in this subject. This prize is usually divided into sums of \$30 and \$20.

**The James Gordon Bennett Prize** of \$50 is offered for work done on local and generalized anæsthesia.

**OPPORTUNITIES FOR SELF-HELP**

In addition to occasional and irregular work at hourly compensation in the various departments, the following positions as student assistants are open to capable veterinary students in their senior year:

Anatomy .....	\$125 to \$300 a year
Bacteriology and Pathology .....	\$125 to \$250 a year

**STUDY FOR PRACTITIONERS**

The very rapid advance made during recent years in veterinary science and in facilities and methods for teaching it, as well as the advantage to be gained by studying a given subject under more than one teacher, make it highly desirable that busy practitioners should be enabled so far as possible to increase their personal knowledge by means of study at such times as they can leave their practice.

The New York State Veterinary College wishes to supply this want as far as practicable and offers every facility at hand to accomplish this end.

Veterinarians that are legally authorized to practice at their places of residence will be admitted to any class in the college at any time and for such period as they may elect, without entrance examinations. They will be wholly free to elect any studies that are being regularly taught at the time, and will be granted all opportunities and facilities offered to regular students as long as these opportunities do not interfere with the instruction of the regular students.

No tuition will be required from licensed veterinarians practicing in the State of New York.

Those taking laboratory courses will be required to pay fees to cover the cost of the material used.

Every practicable facility will be offered for special study along desired lines. A study of pages 12 to 23, Departments, Methods, and Facilities, will not only give information suggested by the heading, but will also enable any practitioner



desiring to attend, to determine in advance precisely what work will be in progress at a given date.

This work is offered to veterinarians entirely for the benefits they may derive from increased knowledge in veterinary science and does not contemplate the granting of a degree, certificate, or other evidence of responsibility on the part of the College.

General inquiries in reference to this work should be addressed to the Dean, whereas questions relating to studies in the various departments may be addressed to the heads of the departments concerned.

## **SEVEN-YEAR COURSE IN AGRICULTURE (B.S.) AND VETERINARY MEDICINE (D. V. M. )**

A regular student may register in both the College of Agriculture and the New York State Veterinary College with the following restrictions:

1. Completion of all the required work of his course.
2. Credit of ninety hours, none of which is in the Veterinary College.
3. Permission of both faculties concerned.

Such a student may be recommended for his degree in the College of Agriculture when he has met the following requirements:

1. Completed thirty hours, of which not less than twelve shall be taught in the New York State College of Agriculture.
2. Has met both the group and agricultural elective requirements in the College of Agriculture.

On the completion of the remaining three years if he meets the requirements of the State Veterinary College he will receive the degree of Doctor of Veterinary Medicine.

## **APPENDIX A**

### **Openings for Veterinarians in America**

1. In the United States Cavalry and Artillery there is a demand for a limited number of veterinarians.
2. In the Bureau of Animal Industry, United States Department of Agriculture, a number of veterinarians are employed professionally as livestock agents and inspectors; inspectors and superintendents of quarantine stations; investigators in bacteriology and pathology, and meat inspectors. By an Act of Congress, the federal meat inspectors must be graduates of a veterinary college. Applicants for the position must take a civil service examination. The initial salary is \$1,500.
3. In the different states there are appointive positions as State Veterinarian, and in some states as County or District Veterinarian. These are desirable positions and involve considerable responsibility.
4. The time is not far distant when each municipality must have its veterinary inspector of markets, abattoirs, and butcher meat, as well as of milk and other dairy products.
5. Veterinarians are needed to serve on tuberculosis and other commissions, so that work in this field may be conducted intelligently and successfully along

scientific lines. The control of disease depends largely upon those specially trained in the anatomy, physiology, hygiene, and pathology of the lower animals.

6. Educators in comparative pathology are wanted in agricultural and veterinary colleges, and experiment stations, and must soon be in demand for every medical college that aims to keep abreast of the times.

7. There are always openings in the wide field of private veterinary practice. With a ratio of three farm animals to every human being, and with less than one veterinarian to every thirteen doctors of medicine for man, the balance of opportunity seems to be largely in favor of the veterinary practice, and this preponderance must steadily increase with the recovery of stock values and the increase in the number of farm animals.

## APPENDIX B

Legal requirements for license to practise veterinary medicine and surgery in the State of New York.

Public health law, Laws of 1909, chapter 49; chapter 45 of the Consolidated Laws, became a law February 17, 1909. Article 10, Veterinary medicine and surgery, became a law June 1, 1895 [as amended to 1916.]

§ 11. **Qualifications for Practice.** No person shall practise Veterinary medicine after July 1, 1895, unless previously registered and legally authorized, unless licensed by the Regents and registered as required by this article; nor shall any person practise veterinary medicine who has ever been convicted of a felony by any court, or whose authority to practise is suspended or revoked by the Regents on recommendation of the State Board. Any person a citizen of the United States and of the State of New York, who matriculated in a reputable veterinary medical school prior to January 1, 1895, and who received his degree therefrom prior to January 1, 1897, or any person who was engaged in the practise of veterinary medicine prior to the year 1886, shall be admitted to the veterinary examination for license to practise, as conducted by the Regents of the University of the State of New York.

§ 216. **Admission to Examination.** The Regents shall admit to examination any candidate who pays a fee of \$10 and submits satisfactory evidence, verified by oath if required, that he (1) is more than 21 years of age; (2) is of good moral character; (3) has the general education required in all cases after July 1, 1897, preliminary to receiving a degree in veterinary medicine; (4) has studied veterinary medicine not less than three full years, including three satisfactory courses, in three different academic years, in the veterinary medical school registered as maintaining at the time a satisfactory standard; (5) has received a degree as veterinarian from some registered veterinary medical school. The degree in veterinary medicine shall not be conferred in this State before the candidate has filed with the institution conferring it, the certificate of the Regents that three years before the date of the degree, or before or during his first year of veterinary medical study in this State, he has either graduated from a registered college or satisfactorily completed an academic course in a registered academy or high school; or has a preliminary education considered and accepted by the Regents as fully equivalent or has passed Regents' examinations equivalent to the minimum requirement in such preliminary education for candidates for medical or



dental degrees in this State. The Regents may, in their discretion, accept as the equivalent for any part of the third and fourth requirements, evidence of five or more years' reputable practice in veterinary medicine, provided that such substitution be specified in the license.

§ 218. **Examinations and Reports.** Examination for license shall be given in at least four convenient places in this State and at least four times annually, in accordance with the Regents rules, and shall be exclusively in writing and in English. Each examination shall be conducted by a Regents' examiner, who shall not be one of the veterinary medical examiners. At the close of each examination, the Regents' examiner in charge shall deliver the questions and answer papers to the board, or to its duly authorized committee, and such board, without unnecessary delay, shall examine and mark the answers and transmit to the Regents an official report, signed by its president and secretary stating the standing of each candidate in each branch, his general average and whether the board recommends that a license be granted. Such report shall include the questions and answers and shall be filed in the public records of the University. If a candidate fails in his first examination, he may, after not less than six months' further study, have a second examination without fee. If the failure is from illness or other cause satisfactory to the Regents, they may waive the required six month's study.

§ 219. **Licenses.** On receiving from the State board an official report that an applicant has successfully passed the examination and is recommended for license, the Regents shall issue to him, if in their judgment he is duly qualified therefor, a license to practise veterinary medicine. Every license shall be issued by the University under seal and shall be signed by each acting veterinary medical examiner of the board and by the officer of the University who approved the credential which admitted the candidate to examination, and shall state that the licensee has given satisfactory evidence of fitness as to age, character, preliminary and veterinary medical education and all other matters required by law, and that after full examination he has been found duly qualified to practise. Applicants examined and licensed before July 1, 1897, by other state examining boards registered by the Regents as maintaining standards not lower than those provided by this article, and applicants who matriculated in a New York State veterinary medical school before July 1, 1896, and who received the veterinary degree from a registered veterinary medical school before July 1, 1897, may without further examination, on payment of \$10 to the Regents, and on submitting such evidence as they may require, receive from them an indorsement of their license or diplomas conferring all rights and privileges of a Regents' license issued after examination. If any person, whose registration is not legal or who is not registered because of some error, misunderstanding, or unintentional omission, shall submit to the State Board of Veterinary Medical Examiners or the Regents of the University of the State of New York satisfactory proof that he had all requirements prescribed by law at the time required for registration and was entitled to be legally registered, he may, on unanimous recommendation of the State Board of Veterinary Medical Examiners, or by action of the Board of Regents, receive from the Regents under seal a certificate of the facts which may be registered by any county clerk and shall make valid the previous imperfect



registration and such certificate shall include the date on which such person could or should have registered, and his registration shall be deemed to have been valid and corrected from that date. And any veterinary practitioner in any county of this State who was registered in the county clerk's office between July 1, 1895, and July 1, 1915, may, upon satisfactory evidence of such registration and of qualification to practise, and upon written application, receive from the Board of Regents a certificate of facts which may be registered in the office of the County clerk where such practitioner was registered, and thus make valid his previous imperfect registration. Before any license is issued it shall be numbered and recorded in a book kept in the Regents office and its number shall be noted in the license. This record shall be open to public inspection, and in all legal proceedings shall have the same weight as evidence that is given to a record of conveyance of land.

§ 220. **Registry.** Every license to practise veterinary medicine shall, before the licensee begins practice thereunder, be registered in a book to be known as the "Veterinary Medical Register," which shall be provided by and kept in the clerk's office of the county where such practice is to be carried on, with name, residence, place and date of birth, and source, number and date of his license to practise. Before registering, each licensee shall file, to be kept in a bound volume in the county clerk's office, an affidavit of the above facts, and also that he is the person named in such license, and had, before receiving the same, complied with all requisites as to attendance, terms and amount of study and examination required by law and the rules of the University as preliminary to the conferment thereof, and no money was paid for such license, except the regular fees, paid by all applicants therefor; that no fraud, misrepresentation or mistake in any material regard was employed by any one or incurred in order that such license should be conferred, and shall annually in the month of January report, under oath, to the State board of examiners, any facts required, shall pay to the Regents a registration fee of one dollar, and shall receive a certificate of registration that must be conspicuously displayed together with the original certificate of registration. Every license, or if lost, a copy thereof, legally certified so as to be admissible, as evidence, or a duly attested transcript of the record of its conferment, shall, before registering, be exhibited to the county clerk, who, only in case it was issued or indorsed as a license under seal by the Regents, shall indorse or stamp on it the date and his name preceded by the words, "Registered as authority to practise veterinary medicine, in the clerk's office of ——— county." The clerk shall thereupon give to every veterinarian so registered a transcript of the entries in the register, with a certificate under seal that he has filed the prescribed affidavit. The licensee shall pay to the county clerk a total fee of \$1 for registration, affidavit and certificate.

# CATALOG OF STUDENTS

1917-1918

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Bower, Lawrence Robert  
Brown, Ellsworth Sheffer  
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Dodge, Loren Newell  
Dooley, James Leo  
Hall, Walter Jay  
Harmon, Glenn Douglas  
King, Fred Gray  
Leffler, David  
McCoy, Charles Stickney  
Meyer, Alfred William  
O'Leary, Joseph Henry  
Ostrander, Charles Leslie  
Paddock, Arthur James  
Salcedo, Hernando  
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Sutton, Harry William  
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New York City  
Trumansburg  
Shortsville  
North Troy  
M oira  
Ca millus  
Monroe  
Savannah  
Oriskany Falls  
Bronx, New York City  
Sussex, N. J.  
West Shokan  
Cortland  
Brookton  
Prattsburgh  
Bogota, Colombia, S. A.  
New York City  
Sidney Center  
Albany

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Carpenter, Clifford Dean  
Conlin, William Jerome  
Corwin, Louis Alfred  
Fincher, Myron Gusten  
Friderici, Kenneth S.  
Fuller, James West  
Helms, Orland Edward  
Johnston, Roy Campbell  
Laughlin, John  
Marsh, Herbert Edward  
Mills, Adrian Morse  
Montfort, Ellis Lindsey  
Morgan, Carlton James  
Parks, Wellington Edward  
Pease, Donald Linus  
Reinhard, Melvin Charles  
Robinson, Aubrey Eugene  
Scherago, Morris  
Shoulkin, Simon D.  
Smith, Earl D.  
Stephenson, Hadley Carruthers  
Sturrock, John  
Tritschler, Morris William  
Varley, James Richard  
Weiss, Max  
Wilkinson, Raymond James

New York City  
Unadilla  
Glens Falls  
Richmond Hill  
Corfu  
Amsterdam  
Springville  
Randolph  
Livingston Manor  
Akron  
New Milford, Conn.  
Durhamville  
Peruville  
Ohio  
Leeds  
Delhi  
Buffalo  
Ithaca  
Brooklyn  
Brooklyn  
Cortland  
Ogdensburg  
Ithaca  
Cincinnati, O.  
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Ithaca

## THIRD YEAR

Billings, William Arthur  
Blackberg, Nathan Solomon  
Blau, Nathan  
Boardman, Don Arol  
Brodner, Meier  
Brown, Charles Elmer  
Brunner, Leon Dispeau  
Brunson, Wright Abel  
Chynoweth, Walter John  
Connolly, Paul Tehan Ignatius  
Cooke, Gaylord Kell  
Cruickshanks, Fred  
Finkelstein, Benjamin  
Flannery, Joseph Michael  
Fleming, Howard Fordham  
Frick, Edwin J.  
Fuller, Robert Wesley  
Gershovsky, Hyman William  
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Ellenville  
Ithaca  
Springville  
Brooklyn  
Onoville  
Binghamton  
Moons  
Williamstown, Vt.  
Syracuse  
Berkeley, Cal.  
Ferndale, Cal.  
Brooklyn  
Saratoga Springs  
Walden  
New York City  
Cuba  
New York City  
West Chazy

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Greene, Harry Robert	Solvay
Grinnells, Calude Delbert	Stewart, Minn.
Houghton, Paul Roswell	Fine View
Hoyt, Floyd Irwin	Clay
Hunt, George E.	Binghamton
Hust, Floyd Philip	Jeffersonville
Jackson, Abraham John, Jr.	Ithaca
Jenkins, DuBois	New Paltz
Kelley, Francis Michael	Phelps
LaGrange, DeWitt	Schenectady
LaWare, Edward William	New York City
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Marhkam, Miles Capron	Constableville
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Muskovin, Albin	Cortland
Myers, Harvey William	Kenoga Lake
Packer, Abraham	Brooklyn
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Scutt, Dana Rolland	Olean
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Snow, Ralph	Central Square
Snyder, Walter C.	Ithaca
Stafford, Ellis Carlton	Cortland
Stone, Edward Stanley	Waverly, Pa.
Tarr, Albert Jacob	Waterloo
Tripp, Lynn Howard	Saranac
Van Volkenberg, Horatio Luther	Springville
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Wilkinson, Marshall Fisk	Clinton
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